

Jawapan

Praktis 5

Praktis Formatif

- 1 A: X bukan suatu pemboleh ubah.
 X is not a variable.
 B: X bukan suatu pemboleh ubah.
 X is not a variable.
 C: X bukan suatu pemboleh ubah.
 X is not a variable.
 D: X ialah suatu pemboleh ubah.
 X is a variable.

Jawapan/Answer: **D**

- 2 P ialah suatu pemboleh ubah.
 P is a variable.

Jawapan/Answer: **B**

- 3 (a) $8 - x$
 (b) $5t + 10$
 (c) $2(h + k)$
 (d) $\frac{1}{2}p - 4q$

- 4 RM($mx + ny$)

- 5 (a) $T : H = a : b$
 $T : T - H = a : a - b$

$$\frac{T}{k} = \frac{a}{a - b}$$

$$T = \frac{ak}{a - b}$$

- (b) $H : T - H = b : a - b$

$$\frac{H}{k} = \frac{b}{a - b}$$

$$H = \frac{bk}{a - b}$$

- 6 Apabila $x = 49$ dan $y = 18$,
 When $x = 49$ and $y = 18$,

$$\begin{aligned} \left(3\sqrt{x} - \frac{2}{3}y\right)^2 &= \left(3\sqrt{49} - \frac{2}{3} \times 18\right)^2 \\ &= (3 \times 7 - 12)^2 \\ &= (21 - 12)^2 \\ &= 9^2 \\ &= 81 \end{aligned}$$

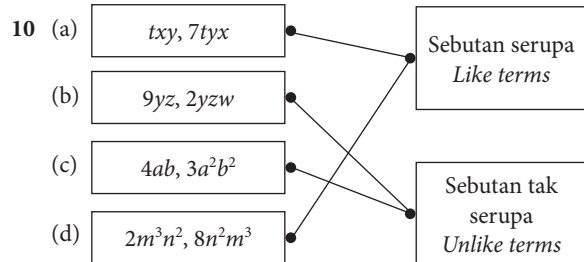
- 7 (a) $15pq + 4 = 15(2)(3) + 4$
 $= 90 + 4$
 $= 94$

(b) $13 - 5pq^2 = 13 - 5(-6)(-1)^2$
 $= 13 + 30$
 $= 43$

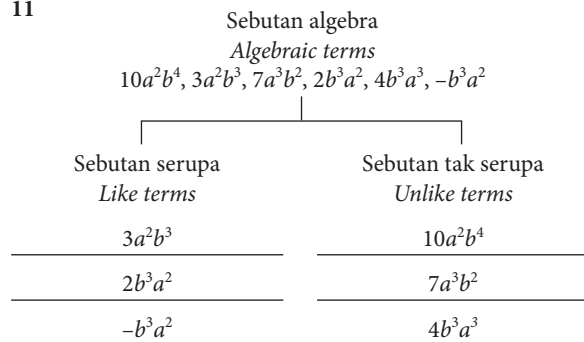
8

	Pekali Coefficient	Pemboleh ubah Variable	Sebutan algebra Algebraic term
(a)	4	x	$4x$
(b)	-7	p	$-7p$
(c)	$\frac{3}{5}$	y	$\frac{3}{5}y$
(d)	$-\frac{9}{11}$	k	$-\frac{9}{11}k$

- 9 (a) $4k$ (b) -2
 (c) $\frac{5}{6}p$ (d) $-\frac{3}{8}w$



11



- 12 $-5(3 + w) + 8w - 2$
 $= -15 - 5w + 8w - 2$
 $= -17 + 3w$
 $= 3w - 17$
 Jawapan/Answer: **C**

13 $(3k + 8m) - (7k - 2m)$
 $= 3k + 8m - 7k + 2m$
 $= -4k + 10m$

Jawapan/Answer: D

14 (a) $2a - 8 + 3a = 5a - 8$

(b) $4h + p - 5h - 11p$
 $= -h - 10p$

(c) $5 - 3mn - 9mn + 15mn$
 $= 5 + 3mn$

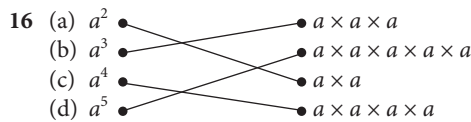
(d) $7n^2 - 6m^2n + 15n^2 - 6m^2n$
 $= 22n^2 - 12m^2n$

15 (a) $(7 + 6h) + (2k - h - 3)$
 $= 7 + 6h + 2k - h - 3$
 $= 2k + 5h + 4$

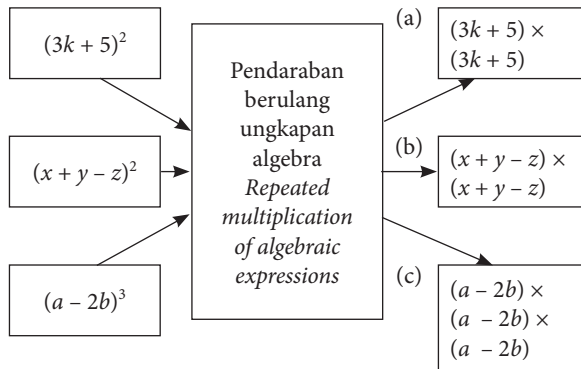
(b) $(3m + n - 1) - (4m - 8n + 5)$
 $= 3m + n - 1 - 4m + 8n - 5$
 $= -m + 9n - 6$

(c) $(11p^2 - 2rs) + (p^2 - 4) - (2 - 9rs)$
 $= 11p^2 - 2rs + p^2 - 4 - 2 + 9rs$
 $= 12p^2 + 7rs - 6$

(d) $(2uv + 13w) - (7w + 3) - (8 - 3w - 2uv)$
 $= 2uv + 13w - 7w - 3 - 8 + 3w + 2uv$
 $= 4uv + 9w - 11$



17



18 (a) $(uv^2w)^3$

(b) $(uv^2w)^4$

19 (a) $5cy \times 2c^2y = 5 \times c \times y \times 2 \times c \times c \times y$
 $= 5 \times 2 \times c \times c \times c \times y \times y$
 $= 10c^3y^2$

(b) $\frac{12a^2b^4}{4ab^2} = \frac{12 \times a \times a \times b \times b \times b \times b}{4 \times a \times b \times b}$
 $= 3ab^2$

20 (a) $3 \times r \times s \times t \times 4 \times t \times r = 12r^2st^2$

(b) $6 \times m \times m \times n \times 3 \times y \times m = 18m^3ny$

(c) $-5 \times a \times c \times c \times c \times b \times 2 \times b \times a \times a \times c = -10a^3b^2c^4$

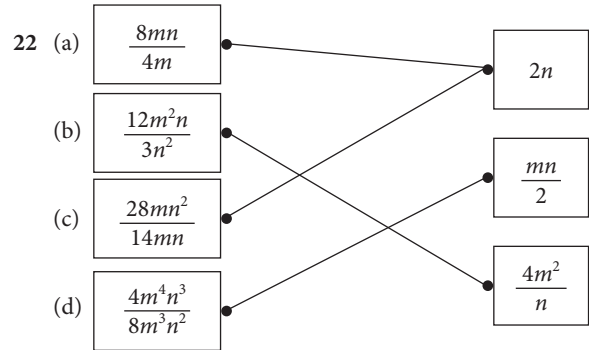
(d) $\frac{1}{2} \times p \times x \times y \times 8 \times p \times p \times x \times y \times y \times y = 4p^3x^2y^4$

21 (a) $15pqr^2 \div 5pr = \frac{15pqr^2}{5pr}$
 $= 3qr$ ✓

(b) $-18h^3k \div 20hk^2 = \frac{-18h^3k}{20hk^2}$
 $= -\frac{9h^2}{10k}$ ✓

(c) $30abc \div (-6ac^4) = \frac{30abc}{-6ac^4}$
 $= -\frac{5b}{c^3}$ ✓

(d) $(-21x^2y^5) \div (-24x^5y^2) = \frac{-21x^2y^5}{-24x^5y^2}$
 $= \frac{7y^3}{8x^3}$ ✗



Praktis Sumatif

1 Pemboleh ubah: x, Q

Variables: x, Q

Jawapan/Answer: B

2 Pekali bagi t dalam sebutan $-5t$ ialah -5 .

The coefficient of t in the term $-5t$ is -5 .

Jawapan/Answer: C

3 A: Salah/Wrong

B: Betul/Correct

C: Salah/Wrong

D: Salah/Wrong

Jawapan/Answer: B

4 A: $m + 2n + 2m - 7n = 3m - 5n$

B: $8m + 12n - 5m - 17n = 3m - 5n$

C: $4m - n + m + 4n = 5m + 3n$

D: $10m - 4n - 7m - n = 3m - 5n$

Jawapan/Answer: C

5 $4pr + 13t^2 = 4(6)(-9) + 13(-5)^2$

$= -216 + 13 \times 25$

$= -216 + 325$

$= 109$

Jawapan/Answer: D

6 (a) Pekali bagi r ialah $\frac{9w}{2}$.

The coefficient of r is $\frac{9w}{2}$.

$$(b) \frac{9rw}{2} = \frac{9(-15)(8)}{2}$$

$$= -540$$

(c) Sebutan serupa/Like terms: $-5wr, \frac{8}{13}rw$

7 (a) $3(mv + 3n) + 2(8mv - 5n)$
 $= 3mv + 9n + 16mv - 10n$
 $= 19mv - n$

(b) $(7xy - 9p^2) - (5xy - 4p^2)$
 $= 7xy - 9p^2 - 5xy + 4p^2$
 $= 2xy - 5p^2$

8 (a) $(7mn)^2 = 49m^2n^2$

(b) $\frac{4}{9}hrw \times \frac{3}{2hw} = \frac{2}{3}r$

(c) $\frac{20x^2y^3z^4}{-5xyz^3} = -4xy^2z$

9 (a) Jumlah wang yang disimpan
Sum of money deposited
 $= \text{RM}(20x + 50y)$

(b) Jumlah wang yang disimpan
Sum of money deposited
 $= \text{RM}(20 \times 55 + 50 \times 42)$
 $= \text{RM}3\ 200$

10 (a) $(5ac + 2b) - (ac + 3b)$
 $= 5ac + 2b - ac - 3b$
 $= (4ac - b) \text{ cm}$

(b) $4ac - b = 4(3)(2) - 7$
 $= 24 - 7$
 $= 17 \text{ cm}$